

***DRAFT 6/26/03***

**Utah Department of Environmental Quality  
Information Technology Plan  
Fiscal Year 2004**



**Utah Department of Environmental Quality Mission**

***The mission of the Department of Environmental Quality is to safeguard human health and quality of life by protecting and enhancing the environment.***

## **Environmental Information Management Initiative Vision**

***Develop an understanding of Utah's environment and enhance environmental protection decision-making by sharing quality information with anyone at anytime.***

## **Office of Information Technology Mission**

***To support the Department of Environmental Quality's mission by providing DEQ, regulated entities, and the public with simple access to accurate information that answers environmental questions and improves the way DEQ does business.***

### **Department of Environmental Quality INFORMATION TECHNOLOGY FY2004 and FY2005 BUDGET INFORMATION**

	<b>FY2004</b>	<b>FY2005</b>
<b>DP Current Expense</b>	<b>648,941.00</b>	<b>484,309.00</b>
<b>DP Capital Expense</b>	<b>298,287.00</b>	<b>293,300.00</b>
<b>IT Salary and Benefits</b>	<b>956,553.11</b>	<b>956,553.11</b>
<b>Total</b>	<b>\$1,903,378.11</b>	<b>\$1,734,162.11</b>

No appropriation requests are projected for FY2005.

No new or expanded services will be required from the Division of Information Technology Services

## **DP CURRENT EXPENSE**

<b>STATE ITS CHARGES</b>	Explanation	FY2004	FY2005
Wide Area Network Charges	523 devices@31 P/M	\$194,556	\$194,556
Novell GroupWise	444 users@4.46P/Q	\$7,922	\$7,922
Novell NetWare	523 devices@5.40P/Q	\$11,297	\$11,297
Novell ZenWorks (NAL)	444 users@2.70P/Q	\$4,795	\$4,795
Novell Cluster Services	<a href="#">2@168.62P/Q</a>	\$1,308	\$1,982
ITS - CPU	Mainframe CPU Charges	\$165	\$165
ITS - CICS CPU	CICS CPU Charges	\$4,120	\$4,120
ITS - PRC	Provo Regional Center	\$780	\$780
ITS - Maintenance	Servers, printers, etc on maint	\$20,565	\$20,565
		<b>\$245,508</b>	<b>\$246,182</b>
<b>ENTERPRISE LEVEL SOFTWARE MAINTENANCE</b>			
ESRI	GIS software maint	\$14,495	\$14,495
Oracle	Production Oracle Server	\$5,491	\$5,491
Sybase			
Sybase PowerDesigner Maint	Data modeler and design	\$2,630	\$2,630
Sybase Adaptive Server	Production Sybase Server	\$14,288	\$14,288
Sybase PowerBuilder	Production Developer	\$2,411	\$2,411
Altoua XMLSpy	XML validation and testing	\$200	\$200
		<b>\$39,515</b>	<b>\$39,515</b>
<b>DIVISION LEVEL SOFTWARE MAINTENANCE</b>			
DSHW - Convera	Document management Software	<b>\$14,000</b>	<b>\$14,000</b>

**IT STAFF TRAINING**

Sybase TechWave 2003	Powerbulder, PowerDesigner training, Bob S. Mark, W.	\$6,000	\$6,000
Novell BrainShare	NetWare Training, Roger B., Ryan W. Dolly P.	\$3,600	\$3,600
Desktop Support apps and Tools	Tom H., Bill C.	\$1,500	\$1,500
Linux Training	Linux O/S training, Brent P.	\$2,000	\$2,000
		<b>\$13,100</b>	<b>\$13,100</b>

**DIVISION IT STAFF TRAINING**

DERR	Brainshare/MS training Harold S. Doc Mgmt Training	\$1,500 \$2,500	\$1,500
DAQ	Brainshare/MS training Steve M. Oracle - James W. PowerBuilder - James W. PowerBuilder - Rob S. Oracle - Rob S. Web Training - Pam.	\$1,500 \$1,440 \$2,500 \$2,500  	\$1,500 \$2,000   \$2,000 \$1,500
DSHW	DP Training	\$5,000	\$5,000
DDW	DP Training	\$500	\$600
		<b>\$17,440</b>	<b>\$14,100</b>

**CONTRACTORS**

IT - NEIEN Project	As identified on project	\$137,000	\$80,000
DSHW - Document Management	Maintenance/fine tuning	\$40,000	\$40,000
DERR - Document Management	As identified on project	\$17,000	
DERR - GIS	ITS/AGRC - GIS ARC/IMS support	\$15,000	
DERR - UST	UST DB contract services	\$16,000	
DWQ	STORET (Blue Fish) Web enablement	\$20,000	
DWQ	Ground Water Data Base	\$20,000	
		<b>\$265,000</b>	<b>\$120,000</b>

**CURRENT EXPENSE - OTHER**

DERR	Telecommuting Modems	\$1,000	\$1,000
	Various Hardware	\$1,000	\$1,000
	Doc management KOFAX software	\$14,145	
DSHW	DP - Other	\$15,000	\$15,000
DAQ	Misc/Software upgrades	\$3,233	\$3,012
DDW	DP-other	\$10,000	\$17,400
	Development Software	\$10,000	
		<b>\$54,378</b>	<b>\$37,412</b>

DP CURRENT EXPENSE FY2004 **\$648,941**

DP CURRENT EXPENSE FY2005 **\$484,309**

## **DP CAPITAL EXPENSE**

<b>CAPITAL ACQUISITIONS</b>	<b>Explanation</b>	<b>FY2004</b>	<b>FY2005</b>
<b><u>DEQ - Server Replacement</u></b>			
UTSTEQ01 - Cannon Building	Server in Cannon Building supporting DSHW and DWQ - Cluster server with external Raid 5 array	\$30,000	\$15,000
UTSTEQ04 - AMC	Server support AMC - RAID 5 array	\$8,000	
UTSTEQMDC1 - DEQ	NT Domain Server - controls NT servers in all buildings	\$8,000	
UTSTEQMSY1 - DEQ	Server supporting Sybase data bases		\$8,000
UTSTEQEAS1 - DEQ	Server supporting NEIEN/EPHTP		\$8,000
UTSTEQDMS - DSHW (DEQ)	Oracle server supporting DSHW document management server		\$35,000
UTSTEQMRAS - DEQ	CITRIX RAS Server	\$8,000	
		<b><u>\$54,000</u></b>	<b><u>\$66,000</u></b>
<b><u>DEQ - Network/Infrastructure</u></b>			
DEQ Additional Tape backup drives	Additional drives for tape BU unit	<b><u>\$12,000</u></b>	
DEQ - UPS replacement APE	3 5 KVA UPS for APE - 1 UPS temp positioned in Cannon pending Cannon UPS/computer room resolution 3 KVA APE#1 bldg	<b><u>\$11,500</u></b>	
HUB Replacement	Cannon APE	<b><u>\$21,000</u></b>	<b><u>\$28,000</u></b>

**Desktop Hardware**

DERR	FY04 - 21 units, FY05 - 23units	\$28,350	\$27,600
DRC	FY04 - 4 Units, FY05 5 units	\$4,400	\$5,500
DSHW		\$20,000	\$20,000
DWQ		\$14,250	\$37,050
DAQ	FY04 - 35 Units, FY05 - 24 units	\$42,000	\$28,800
DDW	FY04 - 10 Units, FY05 - 16 Units	\$10,000	\$16,000
EDO	FY04 - 2 Units, FY05 -4 Units	\$2,000	\$4,000
		<b>\$121,000</b>	<b>\$138,950</b>

**Laptop Hardware**

DERR	FY04 - 1 Unit, FY05 - 1 Unit	\$1,500	\$1,500
DSHW			\$12,000
DWQ		\$7,000	\$7,000
DAQ	FY04 - 6 Units, FY05 - 6 units	\$9,000	\$9,000
DDW	Fy04 2 Units, FY05 - 2 units	\$2,500	\$2,500
		<b>\$20,000</b>	<b>\$32,000</b>

**Desktop Software**

DERR		\$5,000	\$5,000
DSHW		\$5,000	\$5,000
DWQ		\$4,000	\$4,000
DRC		\$600	\$600
		<b>\$14,600</b>	<b>\$14,600</b>

**Printers**

DWQ		\$8,000	\$8,000
DAQ		\$3,400	\$3,000
DDW		\$5,000	
		<b>\$16,400</b>	<b>\$11,000</b>

**Miscellaneous Hardware**

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DSHW	Additional HD for doc management	\$3,000	
DAQ	Misc	\$2,750	\$2,750
DERR - doc mgmt hardware		\$22,037	
		<b>\$27,787</b>	<b>\$2,750</b>
		<hr/>	
	DP Capital Expense FY04	<b>\$298,287</b>	
	DP Capital Expense FY05		<b>\$293,300</b>
		<hr/>	



## IT SALARY AND BENEFITS

Category	FTE's	COST FY04	COST FY05
Clerical	0	0	0
Data Base Admin	1	44,943.44	44,943.44
LAN Admin	2	146,071.88	146,071.88
Management	1	110,791.44	110,791.44
Programmers	5	346,085.20	346,085.20
Training	0	0	0
Web Staff	0	0	0
Other IT Staff	5	308,661.15	308,661.15
Unfilled IT Positions	0	0	0
<b>Totals</b>	<b>14</b>	<b>956,553.11</b>	<b>956,553.11</b>

### Major Accomplishments for FY2003

1. Implemented the Air Quality Index (AQI) that gives the public access to near real-time air quality information 24/7/365.
2. Implemented the first state online storm water permitting system that allow contractors, developers and agencies access to storm water permitting services 24/7/365.
3. Implemented the Radon Reporting systems that allows reporting of radon samples via the web 24/7/365.
4. Completed the node 1.0 test phase of the National Environmental Information Exchange Network (NEIEN) and move the Utah DEQ node to operational status.

### FY2004 Online Services Planned/Under Development

1. NEIEN automated flow for EPA Facility Registration System (FRS), EPA National Emissions Inventory (NEI), State Health Lab to DEQ, and EPHTP surveillance data to UDOH/CDC.
2. Online tracking for Division of Water Quality user and wastewater systems. Includes operator, system, certification, training and reporting modules.
3. Automated emissions inventory reporting from large sources.
4. Online reporting for the Water Quality STORET system.

## **Office of Information Technology Strategic Goals**

- Provide technical support for the Environmental Information Management Initiative
- Ensure DEQ network resource availability and functionality in support of DEQ business processes.
- Support the development and evolution of technology and information standards.

### **Fiscal Year 2004 IT Objectives**

1. Bring Utah node of the National environmental Information Exchange Network to full production status and successfully flow Facility Registration System and National Emissions Inventory data to the EPA Central Data Exchange. Facilitate additional flows as business needs arise. Ensure the interoperability of the node and air emissions inventory data transfer projects.
2. Provide technical support and assistance in the migration of the DSHW core document management system to additional divisions using the DERR document-imaging project as the prototype project.
3. Develop a technical proposal for the development and promulgation of mobile computing on a department-wide basis.
4. Optimize and simplify database and middleware support.
5. Place additional emphasis on internal and external employee IT training
6. Begin modernization program on network infrastructure and uninterruptible power supply.
7. Review and optimize internal IT practices to enhance quality and timeliness of internal customer support.
8. Develop, maintain, modify and enhance existing information systems and new information systems as approved by the EIMI process.
9. Support the State of Utah strategic IT goals and objectives as defined by the Chief Information Officer.
10. Support the state enterprise initiatives as they apply to DEQ.

These objectives will continue into FY2005. Additional services will be moved online during FY2005 or sooner. These include:

1. Automated flow of groundwater compliance monitoring data from Kennecott and Circle 4. These two organizations represent seventy percent of the reporting activity of this program.
2. Use of Node to support bi-directional exchange of RCRA-Info information with EPA.
3. Additional water quality permits being brought online.

**Office of Information Technology  
Supported Information Systems  
Maintenance and Enhancement**

<b>System</b>	<b>Development Platform</b>	<b>Middleware</b>	<b>Database</b>
B&C Licensing	PB 8.0		Sybase
CIM	PB 7.0	SilverStream	Sybase/Oracle
Purchase Requisitions	PB 8.0		Sybase
Rad General Licensing	PB 8.0		Sybase
RAD Xray	PB 8.0		Oracle
Generator Site Access		UII/JSP	Sybase
HRM Overtime	PB 8.0		Sybase
IT Tracking	PB 8.0		Sybase
Storm Water		UII/JSP	Oracle
Software Control	PB 8.0		Sybase
STORET	PB 8.0		Oracle
Time Accounting	PB 8.0		Sybase
Travel System	PB 8.0		Sybase
Used Oil	PB 7.0		Oracle
Ground Water	PB 5.0		Sybase
Radon Reporting		EA Server	Oracle

The Generator Site Access and Storm Water Permitting system are online egov applications that are hosted on Utah Interactive, Inc with data base hosting and support provided by DEQ IT staff. The Radon Reporting system is hosted at DEQ.

## DEQ – IT Projects

Division: Information Technology	Bureau:
System Name: NEIEN Utah Node	Does the system use a thin web browser client: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
<p><b>System Purpose:</b>  DEQ has been heavily involved with the development of the National Environmental Information Exchange Network (NEIEN) since its original conceptualization through the completion of the node 1.0 test phase. UDEQ participated in the original NEIEN planning discussions that took place in the small states technology transfer forums, served on the Interim Network Steering Group (INSG), and have participated in the network alpha, beta and Node 1.0 network node pilot projects.</p> <p>The next phase of this project is to leverage our investment of personnel resources and technology to meet the objectives of the UDEQ Environmental Information Management Initiative (EIMI), and improve data management, and increase data flow efficiencies. It will also allow DEQ to add additional functionality to the use node in support of internal environmental data flows.</p> <p>DEQ has received a second network readiness grant from EPA maintain this node in a full production status and to enhance the methods and infrastructure of data administration and data flow. The grant funding will focus on data integration, data quality and data integrity as well as the redesign of UDEQ data flows. The grant will also be used to reengineer and automate the data flow processes between the State Health Laboratory (SHL) and five UDEQ divisions.</p> <p>Using the second network readiness grant, DEQ will be able to enhance and expand work completed under the initial network readiness grant and to further integrate the node into DEQ business processes and data flows.</p> <p>The data administrator will be tasked with the development of data flow procedures and process to ensure all requisite data is captured and available electronically. The DA will also review the quality assurance practices that are in place and redesign quality assurance practices and procedures where required.</p> <p>The second focus of project is to improve the accuracy and timeliness of data exchange between the State Health Lab (SHL) and DEQ. The tasks in the area will include the acquisition of appropriate Laboratory Information Management System (LIMS) software for the SHL and the installation and implementation of that software. During the same time line DEQ will develop a transport methodology employing XML schema and the Utah node to move data between the SHL and DEQ. This methodology will take advantage of the Utah node and appropriate eDWR schema and the standard sample-reporting format that has been created in conjunction with the SHL. It will be necessary develop additional standardized and uniform XML schema to support the data flows from the SHL.</p> <p>This project will continue through FY2004 and into FY2005. Projected costs for FY2004 are \$137,000 and \$80,000 for FY2005. This will include the automated flow of water samples from the State Health Lab (SHL) and a conceptual outline for the interface of the NEIEN node with the Environmental Public Health Tracking Project. This project meets the criterion for moving government services online and streamlining and simplifying agency interactions. Approximately 1.75 FTEs will be dedicated to this project in FY2004.</p>	

Subject: Egov information exchange		Databases: Oracle	
Languages: Sybase PowerBuilder, XML		Protocols:	
Hardware: Dedicated Server		Operating Systems: NT	
		Sybase EAServer MiddleWare	
Networks: Wide Area Network to EPA Central Data Exchange			
Interface to Other Agencies: Yes - Possible tie to DOH as part of EPHTP			
Contact Name: Ken Elliott		Affiliation: ACIO	
		Phone: 536-4470	
On-Line System: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Data Appropriate for Public Access: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Data Appropriate for Government Intranet Access: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Data Restricted to Private Access: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N			

## Division of Air Quality – IT Projects

Division: Air Quality		
Project Name: Air Emissions Inventory Data Transfer Project		
Project Manager: Sterling Jenkins		Fiscal Year: 04
Status: proposed	Project Cost:	E-Government Services:
<p>Project Description:</p> <h3>Air Emissions Inventory Data Transfer Project</h3> <p>Air emissions inventories are currently submitted to DAQ in paper form. The data from each inventory is then hand entered into a MS Access database. This process is tedious, prone to error and insufficient in performing an in-depth quality check (QC) of calculations. It is also estimated that it can take up to 1900 combined hours to complete. To solve this problem DAQ has now created air emissions inventories in MS Excel for several large sources. These Excel workbooks perform the actual emission calculations thus providing a sufficient QC. The goal of the Air Emissions Inventory Data Transfer Project is to write an application that automatically transfers the needed data from these workbooks to a database. This will eliminate all hand entering and greatly reducing the amount of time spent maintaining inventories.</p> <h3>Software Needs</h3> <p>The new application will be written in Visual Basic. Visual Studio .Net has already been purchased for this project.</p> <p>MS Excel and Access will also be used extensively. There is no need to obtain new licenses.</p> <h3>Hardware Needs</h3> <p>It is estimated that the size of this application will be relatively small. An intermediate, clone database will also be maintained on the Department's server (Utsteq03/Data/Aq/ElectronicInventories/). There are adequate resources on this server to handle both of these files.</p> <h3>Training</h3> <p>No training is anticipated for this project.</p>		
<p>Inter-Agency Coordination/Conformance with IT Strategic Goals – Identify how this project supports the State Strategic IT plan. If the objective of this project departs from the State Strategic IT plan, explain why it is important to your division.</p> <p>This project provides customers the ability to receive and return via e-mail their emission inventory reports. The Air Emissions Inventory Data project will substantially reduce the amount of paper work that a customer needs to do for their emissions inventory. This project is a significant step toward having customers complete their emission inventory on line.</p>		
Potential for Online Services: In the future, customers will enter their emission inventories on line.		
Estimated Start Date: 6/16/03		Estimated End Date: 8/29/03
Projected Personnel Requirements: 1 FTE requiring 240 hours.		

Division: Air Quality		
Project Name: Air Monitoring Data Project		
Project Manager: James Ware	Fiscal Year: 04	
Status: Proposed	Project Cost:	E-Government Services:
<p>Project Description:</p> <h3>The Air Monitoring Data Project</h3> <p>The Air Monitoring Center has been measuring air pollutant concentrations and meteorological data at its various monitoring sites around the state for many years. Currently, this data is located in several different places, and is not always easy to access. The goals of the Air Monitoring Data Project are to consolidate copies of Utah's air quality monitoring data, both current and historical, into one convenient place; to provide an interface to DAQ staff and the public for accessing the data; and to maintain the copies of the data so that it accurately reflects the original sources.</p> <h3>Software needs</h3> <p>The data for this project will be housed in an Oracle database on the Department's Oracle server. DAQ falls under the Department's license for the Oracle software, and thus does not need to acquire any additional licenses.</p> <p>The front end will require the use of Perl, Apache, and Linux, all of which are open source tools and have no licensing costs or restrictions. These tools are installed on the Department web server. There may be some additional web development in Dreamweaver, which DAQ has a license for.</p> <h3>Hardware needs</h3> <p>The database will reside on the Department's Oracle server. There are adequate resources on the Oracle server to handle current needs and future growth for the foreseeable future.</p> <p>The application logic will reside on the Department's web server. It is anticipated that the Department web server will have sufficient resources to handle the demands of this application.</p> <h3>Training</h3> <p>There are no training needs anticipated for this project.</p> <p>Inter-Agency Coordination/Conformance with IT Strategic Goals – Identify how this project supports the State Strategic IT plan. If the objective of this project departs from the State Strategic IT plan, explain why it is important to your division.</p> <p>This project will provide convenient access to air monitoring data for staff and the public. It will be accessible through the web. This will deliver government services on line. Within the DEQ enterprise, data will be available for research and public dissemination. Data from this project will be used by the EPHTP project.</p>		
Potential for Online Services: Staff and Public will be able to access the data via web.		
Estimated Start Date: 7/1/03	Estimated End Date: 8/31/03	
Projected Personnel Requirements: 1 FTE requiring 320 hours.		

## DIVISION OF AIR QUALITY – IT SYSTEMS

Division: Air Quality		Bureau:	
System Name: DAQ-GIS		Does the system use a thin web browser client: NO	
System Purpose: The use of GIS continues to play a significant role in a number of on-going tasks within the division. GIS is used to prepare and reformat data input for urban and regional scale air quality grid modeling. It is also used extensively in emission modeling for SIP development and some components of the annual emissions inventory. Other uses include query and display of the inventory database and the production of graphics for the division's annual report.			
Subject:		Databases:	
Languages:		Protocols:	
Hardware: Compaq P4 desktops		Operating Systems: XP	
Networks: Novell			
Interface to Other Agencies: Data sharing via the internet to AGRC, other agencies and the public will be Accomplished through the use of the DEQ Map Server. This map server will house the DEQ Division Programs GIS information.			
Contact Name: Patrick Barickman		Affiliation: DAQ	Phone: 801-536-4008
On-Line System:	Data Appropriate for Public	Data Appropriate for Government	
YES	Access: YES	Intranet Access: YES	
Data Restricted to Private Access: NO			



Division: Air Quality		Bureau:	
System Name: Integrated Database		Does the system use a thin web browser client: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
<p>The Division of Air Quality's major sections have the responsibilities that require the sharing of information about industries it permits and monitors. In the past, this information was not easily shared and was often duplicated in separate files and systems. This system is an integrated database designed to support easy access to information by anyone in the division. The core data elements that are needed by more than one section in the division have been defined. As the database evolves, additional components will be attached to the core database; these components will meet section specific data managements needs. The emissions inventory was the first component to be completed. Additional components include new source review for approval orders, Title V-operating permits, modeling and compliance monitoring. Minor additions and refinements to the database structure are made as needed.</p>			
Subject: Database of Industry Regulated by Air quality		Databases: MS Access	
Languages:		Protocols:	
Hardware: Compaq P3 and P4 desktops		Operating Systems: NT 4.0, Win 2000 and XP	
Networks: Novell			
Interface to Other Agencies: US-EPA			
Contact Name: Rob Sandberg		Affiliation: Database Coordinator	Phone: 536-4004
On-Line System: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Data Appropriate for Public Access: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Data Appropriate for Government Intranet Access: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Data Restricted to Private Access: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N			

## DIVISION OF DRINKING WATER – IT PROJECTS

Division: Division of Drinking Water		
Project Name: Triton: Drinking Water Information Management and Enforcement System		
Project Manager: Sumner Newman		Fiscal Year: 2004
Status: In Progress 1 <sup>st</sup> phase rollout 7/31/03	Project Cost:	E-Government Services: future
<p>Project Description:</p> <p>Triton is an enterprise level database application being developed to replace Drinking Water's two legacy databases and add enhanced functionality. An initial product delivered by an outside ISV required substantial rework by in house personnel. The current project calls for incremental releases of the software. The first release, scheduled for acceptance testing to begin on 7/31/03, will capture the functionality necessary to support DDW's compliance section for chemical &amp; bacteriological monitoring. Future development will capture other compliance functionality as well as functionality for engineering and special services sections.</p>		
<p>Inter-Agency Coordination/Conformance with IT Strategic Goals - Identify how this project supports the State Strategic IT plan. If the objective of this project departs from the State Strategic IT plan, explain why it is important to your division.</p> <p>Phase one replaces aging legacy applications DMAC and DAD with an enterprise level data base. This portion of the project is primarily for in-house use.</p> <p>future expansion of the project will include web delivery of monitoring data, communication of data with EPA, local health departments, and laboratories, etc.</p>		
Potential for Online Services: Yes		
Estimated Start Date:	Estimated End Date: Phase 1: 7/31/03	
Projected Personnel Requirements: 1 FTE		

## **DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION – IT PROJECTS**

Division: DERR

Project Name: Document Imaging Project

Project Manager: Harold Sandbeck

Status: Proposed

E-Government Services: Government to Citizen

Fiscal Year: 04

Project Cost: \$70,000.00

Project Description: The Document Imaging Project

The regulation of the Underground Storage Tank Program is creating massive amounts of paperwork. The Division of Environmental Response and Remediation (DERR) has a pressing need to reduce the file space required to store these documents, make the documents more easily accessible and reduce staff file search and maintenance time. There are also concerns with document security, retention and control.

In FY99, the Division of Solid and Hazardous Waste (DSHW) implemented a pilot document imaging system for the Department. DERR intends to tap into DSHW's document imaging efforts. DSHW has installed a computerized tracking/indexing system to locate and retrieve stored files in minimal time. This system also allows employees to access a single set of documents concurrently. DSHW purchased the initial hardware components in FY99.

Tapping into the current efforts by the DSHW will allow the DERR to implement more efficient business processes and to simplify the DERR's program efforts.

### **Software needs**

DERR will coordinate with the DEQ/DSHW on the utilization of the existing hardware/software that is already in place. DERR's data will be housed on the current DEQ/DSHW Oracle server.

However, since DERR is in a different location, DERR will purchase the following software licenses for two (2) scanning stations:

- \* 2 Kofax Image Products - Ascent Capture Scan Station ( ver. 5.5 ) - license only - 2 user, 500000 documents per month - STD AC-1500-1200. Yearly maintenance 18% per year. First Year cost is \$14,145.32

DERR will utilize the existing 25 licenses of the DSHW's Convera Retrieval Ware. DERR will also utilize the majority of the existing Kofax scanning front-end developed by DSHW. Following is the approximate development cost associated with making the minor changes to the Kofax scanning front-end, fixing the indexing issue on the Convera Retrieval Ware front- end and making the minor changes to the Convera Retrieval Ware front-end:

- \* Development cost to range from \$14,500.00 to \$17,000.00.

## Hardware needs

Following is a list of the hardware that will need to be purchased:

- 2 - FUJITSU - Fujitsu M 4097D with VRS. Total cost \$10,474.22.
- 2 - Plextor - Plextor PlexWriter PX-W4012TA. Total cost \$195.32
- 10 - CD Technology - CD-RW x 10. Total cost \$185.10
- 2 - Compaq - Compaq Evo D510. Total cost \$1,115.00
- 2 - Compaq Memory – RAM. Total cost \$188.00
- 2 - Compaq - HP L1825. Total cost \$998.00
- 2 - Kofax Image Products - Kofax Adrenaline 1700s. Total cost \$4,370.32
- 2 - Kofax Image Products - SCSI external cable. Total cost \$ 139.82
- 2 - APC - APC Smart-UPS 1500VA USB. Total cost \$918.94
- 2 - FUJITSU - Fujitsu ScanCare Plus. Total cost \$2,402.06
- 1 - Kofax setup if needed. Total cost \$1050.00

## Training

\* \$2,500.00

Inter-Agency Coordination/Conformance with IT Strategic Goals - Identify how this project supports the State Strategic IT plan. If the objective of this project departs from the State Strategic IT plan, explain why it is important to your division.

This project will utilize the existing document imaging efforts of the DSHW.

Potential for Online Services: Staff will be able to access the imaged documents via web access. A future project will allow the public access via the web.

Estimated Start Date: September 30, 2003

Estimated End Date: June 30, 2004

Projected Personnel Requirements: 1 FTE requiring 320 hours.

## DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION – IT SYSTEMS

Division: Division of Environmental Response and Remediation		Bureau:	
System Name: DERR - GIS		Does the system use a thin web browser client: No	
<p><b>System Purpose:</b>          The use of GIS continues to play a significant role within the division. Arcview and ArcInfo are used to perform division GIS assessments. GIS is used for the Emergency Response actions and for both the Superfund reporting process and Underground Storage Tank investigations and remediations process. Following are some of the uses of GIS: query and display the Superfund database and the Underground Storage Tank inventory point source data base, spatial data analysis and display, and creation of maps. DERR is currently in the process of upgrading to ArcGIS 8.3.</p> <p>The ArcIMS DERR/DEQ Interactive Map was completed July 2000 and has been available for public access. Efforts are continuing to push out more program specific data from the entire division.</p> <p>An ongoing contractual agreement with AGRC will continue where AGRC will provide the needed higher level GIS and ArcIMS assistance. DERR will continue to coordinate GIS efforts with other department divisions and state agencies as needed, to include the planning, designing, developing and organizing of databases related to DERR project management program needs.</p>			
Subject: DERR GIS Activities		Databases: AGRC SDE, Access 2000 and ArcIMS	
Languages: ArcView, ArcGIS and ArcInfo		Protocols: Ethernet	
Hardware: Compaq P3 and P4 desktops.		Operating Systems: NT4x and Windows 2000	
Networks: Novell			
Interface to Other Agencies: Data sharing via the internet to AGRC, other agencies and the public will be accomplished through the use of the DEQ Map Server. This Map Server will house the DEQ Division Programs GIS information.			
Contact Name: Harold Sandbeck		Affiliation: DERR	
		Phone: 801-536-4152	
On-Line System: Yes	Data Appropriate for Public Access: Yes	Data Appropriate for Government Intranet Access: Yes	
Data Restricted to Private Access: No			

Division: Division of Environmental Response and Remediation		Bureau:	
System Name: DERR - Underground Storage Tank Data Base		Does the system use a thin web browser client: No	
System Purpose: DERR's Underground Storage Tanks is tasked with tracking leaking and non-leaking underground storage tank activities. The database software currently in use is Access 2000.			
Subject: Database of leaking and non-leaking tanks.		Databases: Access 2000	
Languages:		Protocols: Ethernet	
Hardware: Compaq P3 and P4 desktops.		Operating Systems: NT4x and Windows 2000	
Networks: Novell			
Interface to Other Agencies: Data sharing via the internet using ESRI's ArcIMS.			
Contact Name: Harold Sandbeck		Affiliation: DERR	Phone: 801-536-4152
On-Line System: No	Data Appropriate for Public Access: Yes	Data Appropriate for Government Intranet Access: Yes	
Data Restricted to Private Access: No			